



#3

Sheet 1 of 1

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO.	SERIAL NUMBER
	003493.00083	09/616,878
	APPLICANT	
	Jin-Meng HO et al.	
	FILING DATE	GROUP ART UNIT
	July 14, 2000	2665 2664

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
C.S.S	6,049,549	4/11/2000	Ganz et al.			

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
C.S.S	WO 00/31929	6/2/2000	PCT			
C.S.S	EP 0 853 407 A2	7/15/1998	EP			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C.S.S	N. Ek, "IEEE 802.1 P,Q - QoS on the MAC level," 24 April 1999, XP000864158 Retrieved from the Internet: URL: http://www.tml.hut.fi/Opinnot/Tik-110.551/1999/papers/08IEEE802.1QosInMac/qos.html retrieved 6/27/2002, paragraphs 0003 - 0006
C.S.S	Y. Drabu, "A survey of QoS techniques in 802.11", Internet 'Online! January 1999, XP000864159, Retrieved from the Internet: URL: http://trident.mcs.kent.edu/~ydrabu/research/wmac/mac.pdf , retrieved on 6/27/2002, paragraphs 0001 - 03.21, 0004 - 4.2.1

EXAMINER	DATE CONSIDERED 9/25/04
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Ids w/1449 form filed: August 8, 2002

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	3
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Application Number	09/616,878
Filing Date	July 14, 2000
First Named Inventor	Jin-Meng Ho et al.
Art Unit	2605 2664
Examiner Name	Huy Duy Vu SMAN.C
Attorney Docket Number	003493.00083

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
C.G.S.		US-5,012,469	04-30-1991	Sardana	
		US- 5,717,688	02-10-1998	Belanger et al.	
		US- 5,787,080	07-28-1998	Hulyalkar et al.	
		US- 5,949,768	09-07-1999	Citta et al.	
		US- 5,960,000	09-28-1999	Ruszczyk et al.	
		US- 5,978,382	11-02-1999	Citta et al.	
		US- 6,034,967	03-07-2000	Citta et al.	
		US- 6,169,748	01-02-2001	Barbas et al.	
		US- 6,226,277	05-01-2001	Chuah	
		US- 6,236,656	05-22-2001	Westerberg et al.	
		US- 6,262,976	07-17-2001	McNamara	
		US- 6,263,204	07-17-2001	Kusaki et al.	
		US- 6,285,886	09-04-2001	Kamel et al.	
		US- 6,317,438	11-13-2001	Trebes, Jr.	
		US- 6,356,555	03-12-2002	Rakib et al.	
		US- 6,370,153	04-09-2002	Eng	
		US- 6,377,548	04-23-2002	Chuah	
		US- 6,452,915	09-17-2002	Jorgensen	
		US- 6,469,991	10-22-2002	Chuah	
		US- 6,501,741	12-31-2002	Mikkonen et al.	

FOREIGN PATENT DOCUMENTS

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Date Considered

9/28/04

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Sheet 2 of 3

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Application Number	09/616,878
Filing Date	July 14, 2000
First Named Inventor	Jin-Meng Ho et al.
Art Unit	2665 2664
Examiner Name	Huy-Duy-Vu SHAH, C
Attorney Docket Number	003493.00083

U.S. PATENT DOCUMENTS

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		Number - Kind Code ² (if known)			
Q-S		US- 6,515,972	02-04-2003	Gage et al.	
		US-6,519,462	02-11-2003	Lu et al.	
		US- 6,538,989	03-25-2003	Carter et al.	
		US- 6,542,490	04-01-2003	Ahmadvand et al.	
		US- 6,567,408	05-20-2003	Li et al.	
		US- 6,567,416	05-20-2003	Chuah	
		US- 6,577,609	06-10-2003	Sharony	
		US- 6,587,457	07-01-2003	Mikkonen	
		US- 6,587,465	07-01-2003	Dempo	
		US- 6,590,885	07-08-2003	Jorgensen	
		US- 6,600,744	07-29-2003	Carr et al.	
		US- 6,625,156	09-23-2003	Shaio et al.	
		US- 6,631,122	10-07-2003	Arunachalam et al.	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

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Sheet 3 of 3

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Application Number	09/616,878
Filing Date	July 14, 2000
First Named Inventor	Jin-Meng Ho et al.
Group Art Unit	2665-2664
Examiner Name	Huy-Duy Vu SHAH
Attorney Docket Number	003493.00083

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
C.S.S		Aad, Imat & Castelluccia, Claude, "Introducing Service Differentiation into IEEE 802.11", IEEE, 2000, pages 438-443.	
		Ganz, Aura & Wongthavarawat, Kitt, "IEEE 802.11 Wireless LAN Association Procedure for Multimedia Applications", IEEE, 1999, pages 1287-1291.	
		Ho, Jin-Meng & Lin, Wei, "IEEE P802.11 Wireless LANs, MediaPlex-An IEEE 802.11 Enhanced Protocol for QoS-Driven Wireless LANs", AT&T, November 2000, pages 1-25.	
		Gong, Zhijun et al., "QoS Guaranteed Wireless LAN" International Conference on Communication Technology, ICCT, October 22-24, 1998.	
		Call, F. et al., "IEEE 802.11 Wireless LAN: Capacity Analysis and protocol Enhancement, IEEE 1998.	
		Deng, Dr-Jiunn & Chang, Ruay-Shiung, "A Priority Scheme for IEEE 802.11 DCF Access Method", IEICE Trans. Commun., Vol. E82-B, No. 1, January 1999.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

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Application Number 09/616,878
Filing Date July 14, 2000
First Named Inventor Jin-Meng Ho et al.
Art Unit 2665 2664
Examiner Name Huy-Duy Vu SHAH
Attorney Docket Number 003493.00083

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
C.6S		US-2002/0159418	10-31-2002	Rudnick et al.	
		US- 2002/0163928	11-07-2002	Rudnick et al.	
		US- 5,384,777	01-24-1995	Almadi et al.	
		US- 5,581,544	12-03-1996	Hamada et al.	
		US- 5,644,576	07-01-1997	Bauchot et al.	
		US- 5,644,715	07-01-1997	Baughner	
		US- 5,729,542	03-17-1998	Dupont	
		US- 5,787,080	07-28-1998	Hulyalkar et al.	
		US- 5,793,747	08-11-1998	Kline	
		US- 5,970,062	10-19-1999	Bauchot	
		US- 6,115,390	09-05-2000	Chuah	
		US- 6,181,684	01-30-2001	Turcotte et al.	
		US- 6,404,738	06-11-2002	Reininger et al.	
		US- 6,507,587	01-14-2003	Bahl	
		US- 6,657,965	12-02-2003	Shaffer et al.	
		US- 6,704,932	03-09-2004	Matsunaga et al.	
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FOREIGN PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

2

Complete if Known

Application Number

09/616,878

Filing Date

July 14, 2000

First Named Inventor

Jin-Meng Ho

Art Unit

~~2665~~ 2664

Examiner Name

~~Huy-Duy-Vu~~ SHAN.C

Attorney Docket Number

003493.00083

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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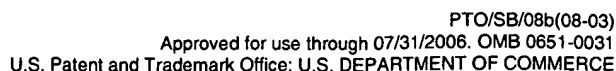
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Sheet	2	of	2
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Application Number	09/616,878
Filing Date	July 14, 2000
First Named Inventor	Jin-Meng Ho
Art Unit	2665 2664
Examiner Name	Huy Duy Vu
Attorney Docket Number	003943.000833

NON PATENT LITERATURE DOCUMENTS

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